

Figure 1

A

Therefor Anderson, et al. Atty Docket 18-01 2/20 450 470 480 430 440 460  $\verb|CTTTTATTACACTTTAAATAAGTGTGGCACTTCAATCCTTTGTGCAATCTTGCACTAAGT|\\$ 540 530 490 500 510 520 541

Plant-derived Molecules and Genetic Sequences Encoding Same and Uses

Figure 1 continued

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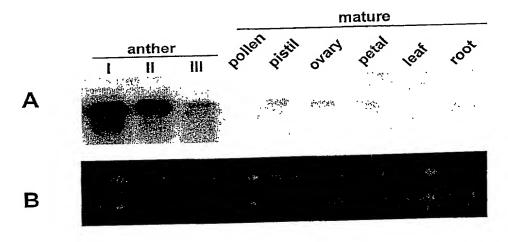


Figure 2

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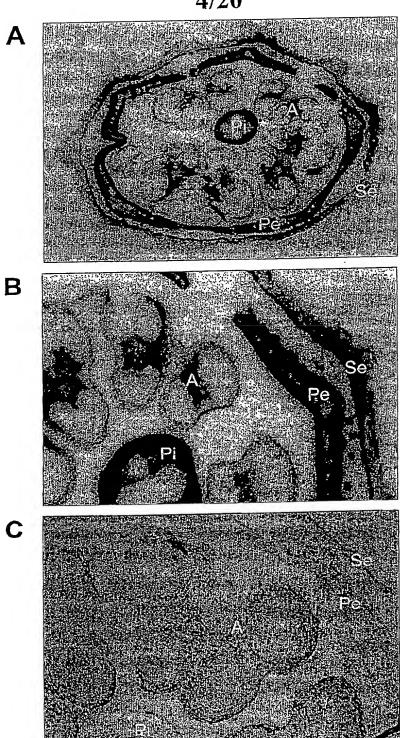
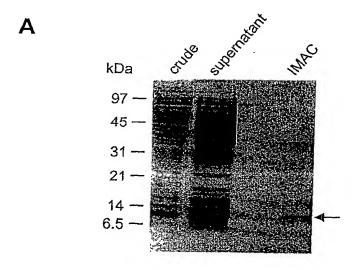


Figure 3



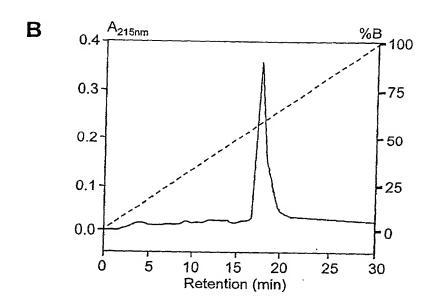


Figure 4

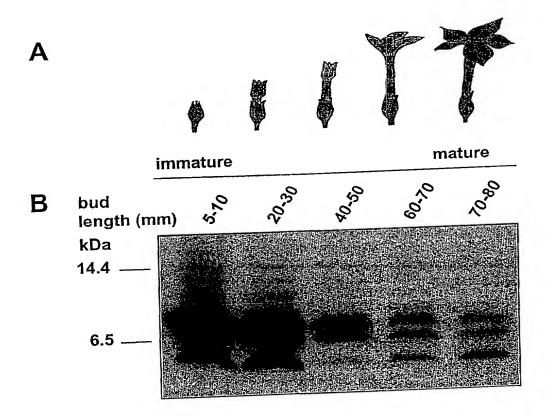
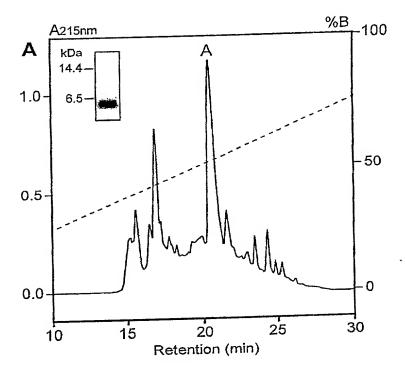


Figure 5

Plant-derived Molecules and Genetic Sequences Encoding Same and Uses Therefor

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В		Peak A
	Protein	NaPdf1
	% Acetonitrile	30.7
	N-terminal sequence	REXKTESN
	Predicted mass (Da)	5296.0
	Observed mass (Da)	5296.7

Figure 6

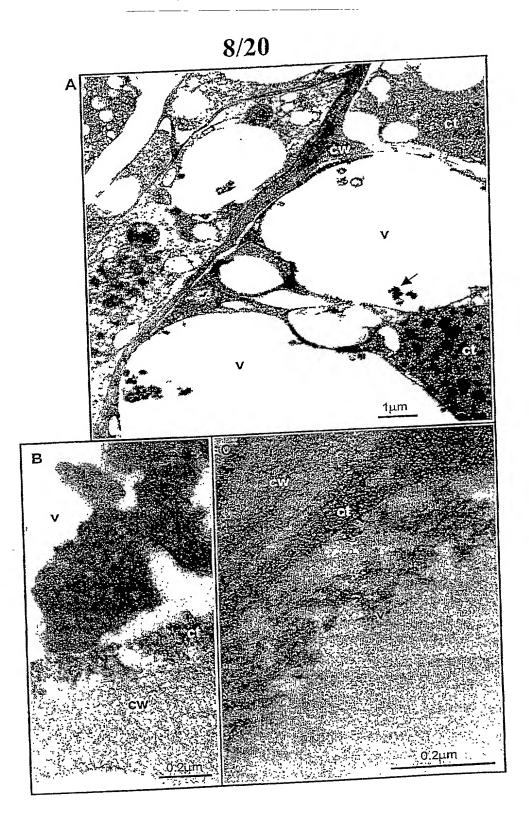


Figure 7

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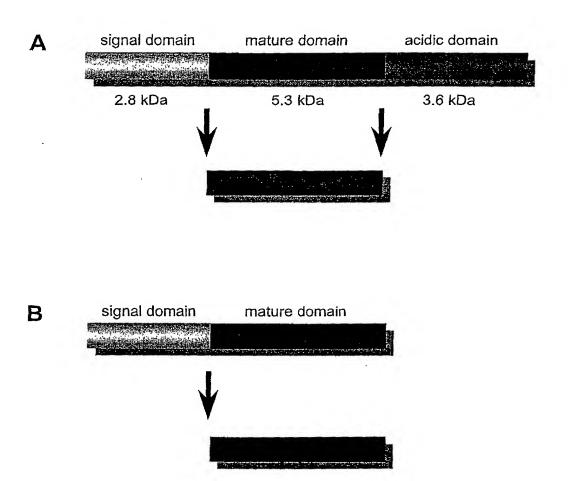


Figure 8

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Plant-derived Molecules and Genetic Sequences Encoding Same and Uses Therefor

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NaPdf1 FST TTP3 NTS13 PPT ATPIIIa	(<400>18) MARSLCFMAFAILAMMLFVAYEVQA-RECKTESNTFPGICITKPP (<400>20) MARSLCFMAFAILAMMLFVAYEVQA-RECKTESNTFPGICITKPP (<400>21) MARSIFFMAFLVLAMMLFVTYEVEAQQICKAPSQTFPGLCFMDSS (<400>22) MANSMRFFATVLLIALLVTATEMGPMTIAEA-RTCESQSHRFKGPCSRDSN (<400>23) MGRSIRLFATFFLIAMLFLSTEMGPMTSAEA-RTCESQSHRFHGTCVRESN (<400>24) MKLSMRLISAVLIMFMIFVATGMGPVT-VEA-RTCESQSHRFKGTCVSASN
NaPdfļ FST TTP3 NTS13 PPT	CRKACISEKFTDGHCSKILRRCLCTKPCVFDEKMTKTGAEILAEEAKTLAAALLEEEIMDN CRKACISEKFTDGHCSKLLRRCLCTKPCVFDEKMIKTGAETLVEEAKTLAAALLEEEIMDN CRKYCIKEKFTGGHCSKLQRKCLCTKPCVFDKISSEVKA-TLGEEAKTLSEVVLEEEIMME CATVCLTEGFSGGRCPWIPPRCFCTSPC
ATPILIA	Canvohnegfvggnorgfrroffotrho

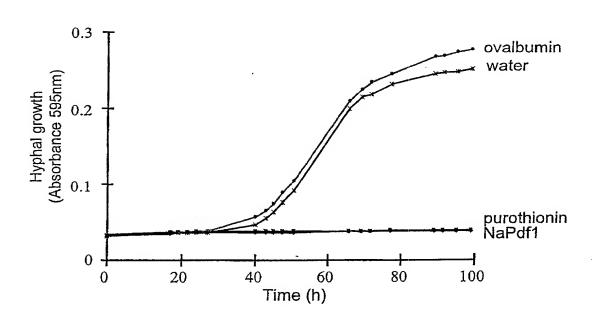
Figure 9

## 11/20

Nicotiana alata Nicotiana tabacum	NaPdf1 FST	- REC-KTESNTFP-GICITKPPCRKACIS-EKFTDGH-CSKILRRCLCTKPC-	(<400>8)
LVConersicon Ascillentim Tebs	#DD3	OTO WYDOOMED OF CHICKING THE TRACES - KKTIDGH - CSK - LIRRCICTRPC.	(<400>25)
Solanum tuberosum	D339	PHO TOTAL STREET CHARLES CREATED SECRET SERVINGEN - CSK - LORKCLCTKPC.	(<400>26)
Definia inflata	7.244 DDT	THE THE PROPERTY CHECKED SNCASVET - ERFSGGN - CHG - F - RRECTED C-	(<400>27)
Colore max	277	TIC-ESCENKEN-GICCKESNCASVCQT-EGFIGGN-CRA-F-RRCFCTRNC-	(<400>28)
rjenic mak	0 0 0 0 0	-rvc-esqshgfh-glcnrdhncalvcrnb-g-fsggrckg-f-rrrcfctric-	(<400>29)
noideum vulgare Gininia niba	ут-н жу	-RIC-RRRSAGFK-GPCVSNKNCAQVCMQE-G-WGGGNCDGPLRRCKCMRRC-	(<400>30)
Sinapis aida Golanim tuberosum	MZA nma	POKLC-ORPSGTWS-GVCGNNNACRNQCINLEKARHGS-CNYVFPAHKCICYFPC-	(<400>31)
Ranhanis sastinis	FIRST.	- KNC-ESLSHKFK-GPCTRDSNC	(<400>32)
Ranhanne sations	De A TOTA	POLLC - EKPSGIWS - GVCGNNNACKNQCINLEKARHGS - CNIVFPAHKCICYFPC-	(<400>33)
Cinonia sacrous	75 - A1 7 2	POKLC-UKPSGTWS-GVCGNNNACKNQCIRLEKARHGS-CNYVFPAHKCICYFPC-	(<400>34)
Districted ands	TE S	PUKLC-ERPSGINS-GVCGNNNACKNQCINLEKARHGS-CNYVFPAHKCICYFPC-	(<400>35)
orra crama	MAD	PUKLC-AKPSGTWSSGNCRNNNACRNFCIKLEKSRHGS-CNIPFPSNKCICYFPC-	(<400>36)
rricium turgium	γ1-P	-KIC-RRRSAGFK-GPCMSNKNCAQVCQQE-G-WGGGNCDGPFRRCKCIROC-	(<400>37)
Triticum turgidium	72-P	-KVC-RQRSAGFK-GPCVSDKNCAQVCLOB-G-WGGGNCDGPPRRCKTTROC-	(00.0007)
Vigna unguiculata	10kDa	-KTC-ENLVDTYR-GPCFTTGSCDDHCKNKKHIJ.SGR-CP-T-T-	(00,004)
Sorghum bicolor	SIa2	-RVC-MGKSAGRK-GICMONONONONONON O MOTORIANON CARTANIA	(<400>39)
Sorghum bicolor	SIa3	- RVC-RRRSBRRSBRRY-RICHMONDAYON BOOK BOOK BOOK BOOK BOOK BOOK BOOK BO	(<400>40)
Dalia merckii	Dm-AMP2	THE SECTION OF THE CONTROL OF THE CO	(<400>41)
Sorahum bicolor	STal	- DVO-MVODATHO - GMCGNIGGO	(<400>42)
Pisum sativum	D1220	NAME BY A SHORT OF THE CASH AND A SHORT OF THE SHOT OF THE SHORT OF THE SHORT OF THE SHORT OF THE SHORT OF THE SHOT OF THE SHORT OF THE SHORT OF THE SHORT OF THE SHORT OF THE SHOT OF THE SHORT OF THE SHORT OF THE SHORT OF THE SHORT OF THE SHOTT OF THE SHORT OF THE SHOTT OF THE	(<400>43)
Aesculus hippocastanum	ah-awor	I CHEBY DOMING CHICKLE - GGCDRHCRIQEGAISGR-CRDDFRCWCIKNC-	(<400>44)
Henchers sammines	Tany nu	"- LICHER POLINS - GNUGN TAHODKOCODWEKASHGA - CHKRENHWKCFCYFNC-	(<400>45)
Dalia merckii	Dm- NVD1	TAC THE CHILD THE CHICASSING THE STREAM OF THE STREET OF T	(<400>46)
לילילילילילילילילילילילילילילילילילילי	Dan-Aut 1	- KLC-EKASKIWS-GNCGNIGHCDNQCKSWEGAAHGA-CHVRNGKHMCFCYFNC-	(<400>47)
Sum Sacivani	FL39	"NTC-EHLADTYR-GVCFTNASCDDHCKNKAHLISGT-CHDWKCFCTQNC-	(<400>48)
ciicoria cernatea	Ct-AMP1	-NIC-ERASLIWI-GNCGNIGHCDTQCRNWESAKHGA-CHKRGN-WKCFCYFNC-	(<400>49)

## Figure 1(

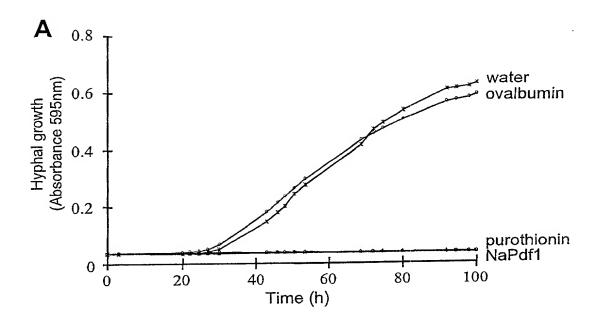
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Figure 11





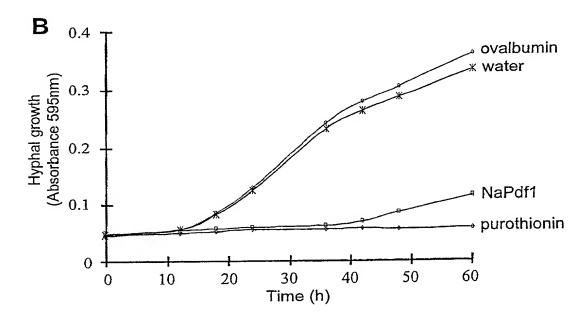


Figure 12

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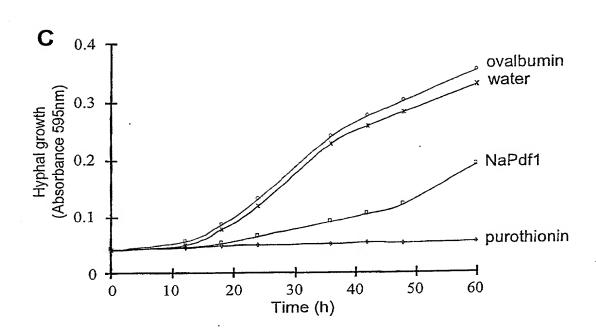


Figure 12 continued

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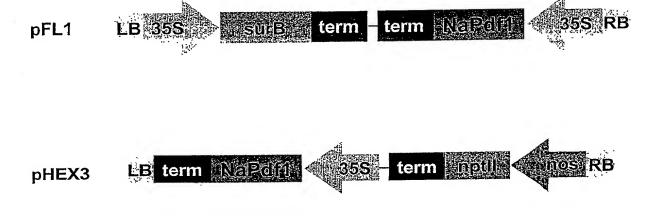
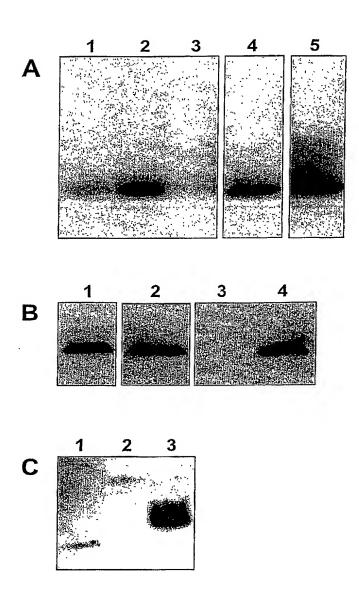


Figure 13

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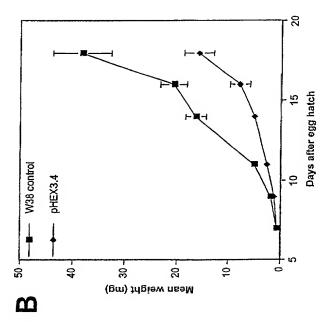
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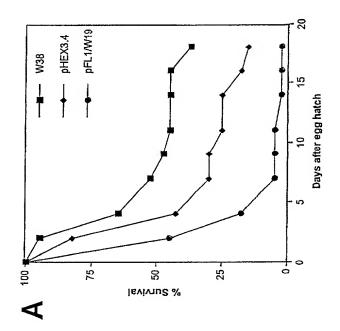


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Figure 14

Figure 15





H. punctigera bioassay with transgenic tobacco

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Mean weight (mg)

Mean weight (mg)

Mean weight (ng)

Mean weight

100 W38
% Sulvival
% Sulvival
% 50 PFL1/W19
0 5 10 15 20 25
Days after egg hatch

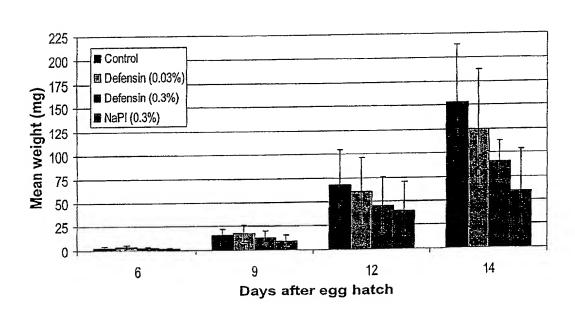
H. armigera bioassay with transgenic tobacco

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Figure 15 continued

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Figure 16

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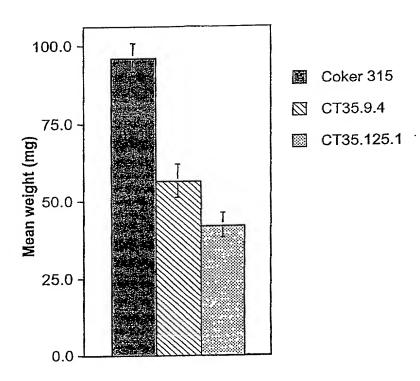


Figure 17